



Lucent Beam

Suite: Elemental Spirits

by Arya Akhavan (December 2015)

Angles for R.I. = 1.540

70 + 17 girdles = 87 facets

1-fold, mirror-image symmetry

96 index

L/W = 1.333 T/W = 0.484 U/W = 0.307

P/W = 0.481 C/W = 0.210

Vol./W³ = 0.364

PAVILION

P1	44.00°	18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78	Cut to centerpoint (include index 14, 82 for preform).
G1	90.00°	18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78	Set stone size (include index 14, 82 as preform).
G2	90.00°	96	Meet P1, G1 (remove preform facets)
P2	44.00°	96	Level girdle (remove preform facets)

CROWN

C1	62.61°	96	Set girdle width.
C2	36.10°	18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78	Level girdle.
C3	34.15°	16-24-32-40-48-56-64-72-80	Meet G1, G2, C1, C2; G1, C2
C4	33.90°	20-28-36-44-52-60-68-76	Meet G1, C2
C5	22.88°	20-28-36-44-52-60-68-76	Meet C2, C3, C4
C6	22.17°	16-24-32-40-48-56-64-72-80	Meet C2, C3, C4, C5
C7	28.00°	96	Meet C1, C3, C6
T	0.00°	Table	Meet C5, C6; C5, C6, C7

This design is a significant simplification of my "Lumina's Rays" design, and should be overwhelmingly simpler to cut. When establishing G2, it helps to think of the outline as a 24-facet round with the bottom chopped off.

The reflection pattern on this one is substantially different from the original, but the crown is still super-cool.

Works in materials from quartz to zircon (RI = 1.54 - 1.93) with no changes - try it in yellow lab sapphire!

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